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10/675,341	09/30/2003	Min Kuo	66329/31351	5786
23380 7590 12/29/2008 TUCKER ELLIS & WEST LLP 1150 HUNTINGTON BUILDING 925 EUCLID AVENUE CLEVELAND, OH 44115-1414				
EXAMINER ROBINSON, MYLES D				
ART UNIT		PAPER NUMBER		
2625				
NOTIFICATION DATE		DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/675,341

Applicant(s)

KUO ET AL.

Examiner

Myles D. Robinson

Art Unit

2625

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 October 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 7, 9 - 16 and 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 7, 9 - 16 and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 April 2008 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/S508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/1/2008 has been entered.

Response to Amendment

2. Applicant's amendment was received on 10/1/2008, and has been entered and made of record. Currently, **claims 1 – 7, 9 – 16 and 18** are pending.

Response to Arguments

3. Applicant's arguments (*see Interview Summary 9/23/2008 and Remarks 10/1/2008*) with respect to the rejections of **claims 1 and 10** under 35 U.S.C. §102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of **Anderson et al.** (U.S. Patent No. 6,356,357).

4. Applicant's arguments (*see Interview Summary 9/23/2008 and Remarks 10/1/2008*) have been fully considered but they are not persuasive.

Regarding **claims 1 and 10**, the Applicant argues that **Kageyama et al.** (U.S. Patent No. 7,092,117) does not disclose, teach or suggest storing parameter data along with page description language formatted print job and allowing for further recalling and editing in a subsequent print operation (see *Interview 9/23/2008 and Remarks 10/1/2008 [page 8, lines 14 – 26]*).

However, Kageyama does disclose storing parameter data along with page description language formatted print job (see *Fig. 5 wherein job tickets 2211-d, 2211-e correspond to editable format document 2211-b, which corresponds to the PDL format, and likewise, job tickets 2212-d, 2212-e, 2213-d, 2213-e, 2215-d, 2215-3, 2216-d, 2216-e correspond to PDL-formatted documents 2212-a, 2213-a, 2215-a, 2216-a, respectively [column 5, lines 7 – 43] and see Figs. 2 and 5 wherein archive 2200 stores PDL-format documents 1640-1, 2211-a, 2212-a, 2213-a, 2215-a, 2216-a and job tickets 2211-d, 2211-e, 2212-d, 2212-e, 2213-d, 2213-e, 2215-d, 2215-3, 2216-d, 2216-e [column 3, lines 37 – 41, column 4, lines 28 – 44 and column 5, lines 1 – 43]*) and allowing for further recalling and editing in a subsequent print operation (see *Fig. 14 wherein edit attributes 1402, 1402-1, 1402-2 allow for editable-format documents [i.e. PDL-formatted documents] to be edited [column 16, line 56 – column 17, line 24 and column 18, lines 16 – 25] and see Fig. 16 wherein archive management service section 2230 accepts and processes requests of edition for archive 2200 [column 9, line 61 – column 10, line 4, column 14, lines 8 – 12 and line 18]*).

Therefore, the Applicant's arguments regarding claims 1 and 10 are considered not persuasive. Please cite rationale of the grounds of rejection below for further explanation.

Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the contemporaneous storage of the print job data in the page description format along with the parameter data associated therewith (as recited in claims 1 and 10) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

Claim Objections

6. The following quotation of 37 CFR 1.75(a) is the basis of the objection:

- (a) The specification must conclude with a claim particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention or discovery.

7. **Claims 1 – 7, 9 – 16 and 18** are objected to under 37 CFR 1.75(a) as failing to particularly point out and distinctly claim the subject matter which the applicant regards as his invention or discovery.

Claims 1 and 10 recite the limitation “a printout” in the second to last line of both claims after the limitation “a printout” was claimed in line 8 of both claims. The Applicant has failed to particularly point out and distinctly claim if the applicant is referring to ***the same, instant*** “printout” or ***a unique and distinctly different*** “printout” within the claim. All claims dependent upon this claim suffer the same deficiency and, therefore, are objected to as well.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

9. **Claims 1 – 7, 9 – 16 and 18** are rejected under 35 U.S.C. 102(e) as being anticipated by **Kageyama et al.** (U.S. Patent No. 7,092,117).

Upon meeting the 3-prong analysis, the Examiner presumes that claims 1 – 7 and 9 to invoke 35 U.S.C. §112, sixth paragraph. See MPEP 2181 I.

Referring to **claim 1**, Kageyama discloses a system for storing of print job data comprising:

means for acquiring, into a controller of an associated rendering device, print job data representative of a desired print job (*see Figs. 1 and 3 wherein printer 100 receives a PDL document from one of computers 310, 320, 330 and prints as instructed by application program section 3140 [column 2, line 66 – column 3, line 11 and [column 3, lines 23 – 28]], which print job data is comprised of a page description language format (see Fig. 16, PDL-format document 1630-1, 1640-1 [column 3, lines 50 – 55 and column 4, lines 39 – 56]) associated with a selected printer device (see Fig. 1, printer 100 [column 2, lines 44 – 55]) and parameter data corresponding to at least one selected document output parameter associated with the page description language (*see Fig. 5 wherein job tickets 2211-d, 2211-e correspond to editable format document 2211-b, which corresponds to the PDL format, and likewise, job tickets 2212-d, 2212-e, 2213-d, 2213-e, 2215-d, 2215-3, 2216-d, 2216-e correspond to PDL-formatted documents 2212-a, 2213-a, 2215-a, 2216-a, respectively [column 5, lines 7 – 43]),**

converting means associated with the controller for converting acquired print job data into bitmapped image data (*see Fig. 3, printer logical driver section 3130 [column 3, lines 29 – 36] wherein dot image data is analogous to bitmapped image data),*

means for generating a printout from the rendering device in accordance with an output of the controller (see Fig. 2, printer engine 500 [column 2, lines 44 – 55]),

storage means for selectively storing the print job data in the page description format in a selected storage location of the controller contemporaneously with the parameter data associated therewith (see Figs. 2 and 5 wherein archive 2200 stores PDL-format documents 1640-1, 2211-a, 2212-a, 2213-a, 2215-a, 2216-a and job tickets 2211-d, 2211-e, 2212-d, 2212-e, 2213-d, 2213-e, 2215-d, 2215-3, 2216-d, 2216-e [column 3, lines 37 – 41, column 4, lines 28 – 44 and column 5, lines 1 – 43]),

means for acquiring print status information including data representative of a name associated with the print job data and data representative of a size of the print job data (see Figs. 10 – 12 wherein computer 300 provides a user interface which displays the names and sizes associated with print jobs registered in archive 2200 [column 3, line 65 – column 4, line 16, column 9, lines 7 – 13 and column 9, line 65 – column 10, line 4]),

the storage means including means for selectively storing the print status information associatively with the print job data (see Fig. 5 wherein each document is registered in archive 2220 along with its associated job ticket [column 5, lines 25 – 43 and column 9, lines 7 – 13]),

means for selectively communicating the print job data to generate an image corresponding thereto on an associated display device, the print job data corresponding to the print job data stored in the page description format in the storage location (see Figs. 10 – 12 wherein computer 300 provides a user interface which displays the names

and sizes associated with print jobs registered in archive 2200 [column 3, line 65 – column 4, line 16, column 9, lines 7 – 13 and column 9, line 65 – column 10, line 4]]₁

means for receiving selection data in accordance with the image from the associated display device, which selection data includes an instruction to commence at least a second rendering of associated print job information stored in the page description format (see Figs. 10 – 12 wherein computer 300 provides a user interface which displays the names and sizes associated with print jobs registered in archive 2200 [column 3, line 65 – column 4, line 16, column 9, lines 7 – 13 and column 9, line 65 – column 10, line 4] and wherein print, storage, and storage and print requests are issued from archive management instruction section 3170 of computer 300 to the archive management service section 2230 of printer controller 200 such that archive management instruction section 3170 instructs archive management section 2230 in the printer controller 200 to print the documents already stored therein [column 3, line 65 – column 4, line 3 and column 9, lines 7 – 29]]₁

means for receiving edit data corresponding to selected edits to stored parameter data (see Fig. 14 wherein edit attributes 1402, 1402-1, 1402-2 allow for editable-format documents [i.e. PDL-formatted documents] to be edited [column 16, line 56 – column 17, line 24] and see Fig. 16 wherein archive management service section 2230 accepts and processes requests of edition for archive 2200 [column 9, line 61 – column 10, line 4, column 14, lines 8 – 12 and line 18]]₁

the converting means including means for completing a second conversion of the print job information stored in the page description format to the bitmapped image data

(see Figs. 2 and 6, document format conversion section 2700 comprising PDL format conversion section 2710 and image format conversion section 2720 [column 19, lines 31 – 47 and column 19, line 60 – column 20, line 17]), and

means for selectively communicating the bitmapped image data of the second conversion of print job data to the selected printer device to obtain a printout thereof (see Figs. 10 – 12 wherein computer 300 provides a user interface which displays the names and sizes associated with print jobs registered in archive 2200 [column 3, line 65 – column 4, line 16, column 9, lines 7 – 13 and column 9, line 65 – column 10, line 4] wherein print, storage, and storage and print requests are issued from archive management instruction section 3170 of computer 300 to the archive management service section 2230 of printer controller 200 such that archive management instruction section 3170 instructs archive management section 2230 in the printer controller 200 to print the documents already stored therein [column 3, line 65 – column 4, line 3 and column 9, lines 7 – 29] and see Figs. 22 – 23 [column 26, lines 38 – 45]) in accordance with the stored parameter data and received edits thereto (column 18, lines 16 – 25).

Referring to **claim 2**, Kageyama discloses the system further wherein the storage means comprise multiple storage locations for storing the print job data (see Fig. 5 wherein each document i ($i = 1, 2, \dots, N$) is stored in archive 2200 [column 5, lines 18 – 29] and see Figs. 10 – 12 wherein archive 2200 is divided into hierarchical folders [column 4, lines 4 – 16]).

Referring to **claim 3**, Kageyama discloses the system further comprising selection means for selecting the storage location to store the print job data (see Figs.

10 – 12 [column 3, lines 39 – 41, column 3, line 65 – column 16 and column 5, lines 1 – 6]).

Referring to **claim 5**, Kageyama discloses the system further wherein the selection means includes:

means for prompting an associated user for selection data to select a storage location to store print job data associated with the user (see Fig. 9 [column 3, lines 39 – 41 and column 4, lines 22 – 44]),

means for receiving user selection data resultant from a prompt of the user for the storage location to store print job data associated with the user (see Figs. 10 – 12 [column 3, line 65 – column 4, line 16]), and

means for storing the print job data in the storage location in accordance with the user selection data (see Figs. 5, 16 and 17 [column 3, lines 39 – 41 and column 4, lines 22 – 44]).

Referring to **claim 6**, Kageyama discloses the system further comprising means for selecting parameters for the desired print job (see Fig. 5 wherein job tickets are parameters entered by the user for each print job [column 5, lines 25 – 29 and 55 – 65]).

Referring to **claim 9**, Kageyama discloses the system further comprising means for performing raster image processing on the print job (see Figs. 2, 6 and 17, automatic page/document layout section 2810 [column 5, line 55 – column 6, line 5]).

Referring to **claims 10 – 12, 14, 15 and 18**, the rationale provided in the rejections of claims 1 – 3, 5, 6 and 9, respectively, are incorporated herein. In addition,

the systems of claims 1 – 3, 5, 6 and 9 perform the methods of claims 10 – 12, 14, 15 and 18, respectively.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sasaki et al. (U.S. Patent No. 6,633,400) disclose a print system comprising a storage device for storing a printer description file in which information representing the print property of the printer apparatus is described, and an update device for updating the printer description file stored in the storage device when the print property of the printer apparatus is changed (*see Abstract and Figs. 1 – 4*).

Krist et al. (U.S. Patent No. 5,615,015) disclose a printing system including an emitter for converting a first electronic document, with the user-generated electronic job ticket, into a second electronic document written in a page description language, the second electronic document including respective page description language representations of a selected instruction and a selected electronic page (*see Abstract and Figs. 11 – 14*).

Anderson et al. (U.S. Patent No. 6,356,357) disclose a printing system capable of storing and modifying image formats (*see Abstract and Figs. 7 – 8*).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myles D. Robinson whose telephone number is (571)272-5944. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler L. Haskins can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Myles D. Robinson/
Examiner, Art Unit 2625
12/18/08

/Twyler L. Haskins/
Supervisory Patent Examiner, Art Unit 2625